

IN THE CLAIMS

Please amend the claims to read as follows. The following is a listing of all cancelled and pending claims, and cancels any prior listing in this application.

1. (currently amended) A system, comprising:

~~an automated interactive acquirer of data comprehensively descriptive of a particular system~~ **an interactive medico-health data acquisition interface;**

a memory;

a data processor **processing module;** and

a reporter **reporting module** to report the conclusions of the data processor **processing module to a user,**

~~wherein the system described is the comprehensive medical state of a human being~~

wherein in operation a user is prompted to and enters data via the interactive medico-health data acquisition interface that collectively comprise a substantially complete medico-health description of said user,

wherein the data is expressed using the terminology of a defined substantially comprehensive medico-health taxonomy, and

wherein the user entered data is stored in a defined data structure related to the taxonomy.

2. (currently amended) The system of claim 1, wherein the ~~automated interactive inquirer~~ **interactive medico-health data acquisition interface** obtains the data by dynamically posing a plurality of questions to a user.

3. (currently amended) The system of claim 1, ~~where~~ **wherein** the data ~~processor~~ **processing module** implements a clustering generation algorithm.

4. (currently amended) The system of claim 3, ~~where~~ **wherein** the cluster generation algorithm finds a cluster of other human beings medically similar to the human being **and does at least one of storing the cluster for further processing, reporting the members of the cluster to the user, further processing the data associated with the individuals in the cluster and facilitating on-line communications between the various members of the cluster.**

5. (currently amended) The system of claim 4, ~~where~~ **wherein** the data ~~processor~~ **processing module further processes** ~~operates on~~ the generated cluster to generate useful ~~medical~~ information for the ~~human being~~ **user**.

6. (currently amended) The system of claim 4, ~~where~~ **wherein** the data ~~processor~~ **processing module** implements an algorithm that measures medical similarity **according to a defined distance metric.**

7. (currently amended) A method, comprising:

describing **a substantially complete medico-health description of** a human being's ~~comprehensive medical state in terms of a basis set of fundamental attributes~~ **using the terminology of a defined substantially comprehensive medico-health taxonomy;**

storing a **mathematical** representation of said description in a database;

measuring the distance between the ~~state so described~~ representation and all other representations ~~states similarly described~~ in the a database of such systems;

identifying the cluster of closest other representations ~~states~~ within the database; and

analyzing the cluster of closest other representations ~~states~~ for useful information ~~useful~~ to improving the human being's ~~medico-health~~ medical condition,

wherein at least one of the describing, storing, measuring, identifying or analyzing or ~~identifying~~ is performed by, or with the assistance of, a computer ~~system~~ or data processor.

8. canceled.

9. (currently amended) The method of claim 7, where the number of other representations ~~states~~ in the cluster is set dynamically.

10. (currently amended) The method of claim 9, where the number of other representations ~~states~~ in the cluster is determined by means of comparing the moving average of the incremental increases in the ~~medical~~ distance associated with each added ~~other~~ representation ~~states~~ to a defined threshold.

11. (currently amended) The method of claim 10, where in the analysis of the cluster ~~results in~~ generates useful medical information for the human being.

12. (currently amended) The method of claim 11, where in the distance between the representations ~~states~~ in the database is a measure of medico-health ~~medical~~ similarity.

13. (currently amended) A method of expressing a human's ~~being's~~ substantially comprehensive medico-health ~~medical~~ state as a multidimensional vector in a hyperspace, comprising:

articulating a **substantially** comprehensive description of the human's ~~being's~~ **medico-health** ~~medical~~ state using a specialized taxonomy **via an interactive medico-health data acquisition interface**; and

mapping the articulation to a vector in hyperspace whose components are numbers indicating ~~(1)~~ a measure of the presence or ~~(2)~~ the absence of each of a set of **medico-health** ~~medical~~ attributes,

wherein at least one of said articulating and mapping is performed by, or with the assistance of, a computer system, **and wherein the components of said vector constitute a substantially orthogonal basis set for specifying a point in the hyperspace.**

14. (currently amended) The method of claim 13, where**in** the numbers vary between zero and an integer upper bound.

15. (currently amended) A method, comprising:

encoding a **substantially** comprehensive description of a human's **medico-health** ~~medical~~ state as a set of numerical values,

wherein said encoding is implemented by, or with the assistance of, a computer program in response to data supplied by a user interacting with a **an automated interactive prompter interface that queries the user and elicits user responses in terms of a defined substantially comprehensive medico-health taxonomy** ~~computer program~~, and

wherein the set of numerical values comprise the values of elements that collectively form a substantially orthogonal basis set in a hyperspace.

16. (currently amended) The method of claim 15 wherein each of the ~~numerical~~
~~values~~ **values of elements itself has M fields or dimensions** ~~represent a measure of the presence~~
~~or the absence of a unit vector in N dimensional space.~~

17. (currently amended) The method of claim 16, wherein M equals three.

18. (currently amended) The method of claim 17, wherein each three dimensional
~~unit vector~~ **value** is a unique coincidence of: a bodily system identifier; an identifier of a medical
condition or pertinent fact; and ~~a~~ **an** identifier of anatomical location.